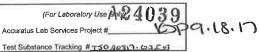
Project No. A24039
Protocol Number: GJI01083017.FCST.1

GOJO Industries, Inc. Page 23 of 33







15072117.63[0] KMH 9.13-17 TS011217.63[0] MS9-19-17

**PROTOCOL** 

# **Food Contact Sanitizer Test Method for Towelettes**

Test Organism(s):

Staphylococcus aureus (ATCC 6538)

PROTOCOL NUMBER

GJI01083017.FCST.1

# PREPARED FOR/SPONSOR

GOJO Industries, Inc. One GOJO Plaza, Suite #500 Akron, OH 44311

# PREPARED BY/TESTING FACILITY

Accuratus Lab Services 1285 Corporate Center Drive, Suite 110 Eagan, MN 55121

DATE

August 30, 2017

## PROPRIETARY INFORMATION

THIS DOCUMENT IS THE PROPERTY OF AND CONTAINS PROPRIETARY INFORMATION OF ACCURATUS LAB SERVICES. NEITHER THIS DOCUMENT, NOR INFORMATION CONTAINED HEREIN IS TO BE REPRODUCED OR DISCLOSED TO OTHERS, IN WHOLE OR IN PART, NOR USED FOR ANY PURPOSE OTHER THAN THE PERFORMANCE OF THIS WORK ON BEHALF OF THE SPONSOR, WITHOUT PRIOR WRITTEN PERMISSION OF ACCURATUS LAB SERVICES.

Template: 330-GJI01 Rev. 001

Page 1 of 11

EXACT COPY DATE 11-9-17

GOJO Industries, Inc. Page 24 of 33

Protocol Number: GJI01083017.FCST.1



, Protocol Number: GJI01083017.FCST.1

GOJO Industries, Inc. Page 2 of 11



#### Food Contact Sanitizer Test Method for Towelettes

## **PURPOSE**

The purpose of this assay is to determine the sanitizing efficacy of towelettes recommended for the treatment of hard, non-porous surfaces which may come into contact with food. This method is in compliance with the requirements of and may be submitted to, one or more of the following agencies as indicated by the Sponsor: U.S. Environmental Protection Agency (EPA) and Health Canada.

### TEST SUBSTANCE CHARACTERIZATION

According to 40 CFR, Part 160, Subpart F [160.105] test substance characterization as to identity, strength, purity, solubility and composition, as applicable, shall be documented before its use in this study. The stability of the test substance shall be determined prior to or concurrently with this study. Pertinent information, which may affect the outcome of this study, shall be communicated in writing to the Study Director upon sample submission to Accuratus Lab Services. Accuratus Lab Services will append Sponsor-provided Certificates of Analysis (C of A) to this study report, if requested and supplied. Characterization and stability studies not performed following GLP regulations will be noted in the Good Laboratory Practice compliance statement.

## SCHEDULING AND DISCLAIMER OF WARRANTY

Experimental start dates are generally scheduled on a first-come/first-serve basis once Accuratus Lab Services receives the Sponsor approved/completed protocol, signed fee schedule and corresponding test substance(s). Based on all required materials being received at this time, the <u>proposed</u> experimental start date is September 13, 2017. Verbal results may be given upon completion of the study with a written report to follow on the <u>proposed</u> completion date of October 11, 2017. To expedite scheduling, please be sure all required paperwork and test substance documentation is complete/accurate upon arrival at Accuratus Lab Services.

If a test must be repeated, or a portion of it, due to failure by Accuratus Lab Services to adhere to specified procedures, it will be repeated free of charge. If a test must be repeated, or a portion of it, due to failure of internal controls, it will be repeated free of charge. "Methods Development" fees shall be assessed, however, if the test substance and/or test system require modifications due to complexity and difficulty of testing.

If the Sponsor requests a repeat test, they will be charged for an additional test. Neither the name of Accuratus Lab Services nor any of its employees are to be used in advertising or other promotion without written consent from Accuratus Lab Services.

The Sponsor is responsible for any rejection of the final report by the regulatory agencies concerning report format, pagination, etc. To prevent rejection, Sponsor should carefully review the Accuratus Lab Services final report and notify Accuratus Lab Services of any perceived deficiencies in these areas before submission of the report to the regulatory agency. Accuratus Lab Services will make reasonable changes deemed necessary by the Sponsor, without altering the technical data.

# JUSTIFICATION FOR SELECTION OF THE TEST SYSTEM

Regulatory agencies require that a specific organism claim for a sanitizer intended for use on food contact surfaces be supported by appropriate scientific data demonstrating the efficacy of the sanitizer against the claimed bacteria. This is accomplished by treating the target bacteria with the sanitizer (test substance) under conditions which simulate as closely as possible, in the laboratory, the actual conditions under which the sanitizer is designed to be used. For saturated towelette sanitizer products intended for use on food contact surfaces, a carrier method is used in the generation of the supporting data. Regulatory agencies recommend that three lots of product be tested against Staphylococcus aureus and Escherichia coli, minimally, on smooth stainless steel or glass and rough textured plastic surfaces treating at least 4 square feet per towelette. Sanitizing efficacy should be demonstrated within 30 seconds of exposure. The experimental design in this protocol meets these requirements. Health Canada requires the product be a broad spectrum or hospital grade disinfectant before sanitizer claims may be made.

Template: 330-GJI01 Rev. 001 - Proprietary Information -



GOJO Industries, Inc. Page 3 of 11



TEST PRINCIPLE

Test carriers will be inoculated with a test organism suspension and will be dried. Following drying, the carriers will be treated with the pre-saturated towelette and exposed to the test substance for the Sponsor specified exposure time. After exposure, each carrier is neutralized and assayed for survivors. Appropriate initial suspension (time zero analysis), culture purity, sterility, carrier population and neutralization confirmation controls will be performed. The current revision of Standard Operating Procedure CGT-0025 reflects the method used in this study.

## **TEST METHOD**

#### Table 1

Designation #	Growth Medium	Incubation Parameters
6538	Nutrient Agar A & B	35-37°C, aerobic
		Decignation

The test organism(s) to be used in this study was/were obtained from the American Type Culture Collection (ATCC), Manassas, VA.

Preparation of Test Organism

In a manner consistent with the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants method, streak a loopful of a thawed cryovial of stock organism broth culture to a Nutrient agar A slant medium. Incubate at 35-37°C for 24±2 hours.

For the final test culture, add up to 5 mL of Phosphate Buffer Dilution Water (PBDW) to the Nutrient Agar A slant, following incubation. Using a sterile loop, dislodge growth from the agar surface. Collect the mixture and transfer to a vessel containing 99 mL of PBDW and mix thoroughly. Inoculate Nutrient Agar B plates (a minimum of 10 is recommended for the test) using 200 µL of culture, spreading the inoculum to create a lawn of growth. Incubate the plates at 35-37°C for 24±2 hours.

Following incubation, add up to 5 mL of Phosphate Buffered Saline + 0.1% Tween 80 to each plate. Using a sterile rod/plate spreader, gently dislodge the culture from the agar surface. Avoid disrupting the agar. Collect and combine the culture, then mix thoroughly. Filter the collected culture through sterile Whatman #2 filter paperwerk using a vacuum source. Standardize the culture (see modification #1 for target concentration). Applicable culture dilutions will be prepared using PBDW. An organic soil load will be added to the test culture per Sponsor's request. The final test culture will be mixed thoroughly prior to use.

## Carriers

Sponsor provided carriers (textured plastic or glass) will be used for testing. Each carrier is approximately 12" x 12" in size. Four carriers will be tested per test substance/organism to represent approximately 4 square feet. Carriers will be sterilized prior to use.

## **Contamination of Carriers**

Each test and control carrier will be individually inoculated with culture in a drop-wise fashion, 5 µL aliquots in 5 rows, for a total of 125 µL. The inoculum will then be spread over the inoculated surface using a sterile plate spreader or loop. The inoculation procedure will be repeated until all carriers in the set have been inoculated. The carriers will be loosely covered and allowed to dry for 30±1 minutes at 30±5°C. The actual drying conditions will be clearly documented.

## Preparation of Test Substance

Towelettes (wipes) saturated with test substance will be supplied by Sponsor. Prior to testing, 3 wipes will be dispensed and discarded. If a wipe canister has not been used within 2 hours, 3 additional wipes will be discarded.

One towelette will be used to treat a set of four inoculated and dried carriers using a new area of the folded wipe per carrier. The entire surface (~12" x ~12") of each carrier will be wiped. Triplicate sets carriers will be treated per test lot, using a new wipe for each set of 4 carriers. Following wiping, each carrier will be allowed to expose for the exposure time at room temperature.

BAdditional wipes may be discarded as needed. MS 9-15-17

Template: 330-GJI01 Rev. 001

- Proprietary Information -

1285 Corporate Center Drive, Suite 110 • Eagan, MN 55121 • 877 287 8378 • 651 379 5510 • www.accuratuslabs.com

Project No. A24039

Protocol Number: GJI01083017.FCST.1

GOJO Industries, Inc. Page 26 of 33



Protocol Number: GJI01083017.FCST.1

GOJO Industries, Inc Page 4 of 11



**Test System Recovery** 

For the treated carriers- Following the exposure period, each carrier will be placed in separate sterile bags with 500 mL of appropriate neutralizer. Gently mix each bag by hand to ensure full elution of the organism films for approximately 2 minutes. Following neutralization, ten-fold serial dilutions will be prepared. Duplicate 1.0 mL aliquots of the 100 dilution will be plated. In addition, neutralizer (2 volumes, see modification 2) will be transferred to sterile 0.2-0.45 μm filter apparatus systems pre-wetted with 10 mL sterile diluent and will be filtered. Each filter will be rinsed using ≥50 mL of sterile diluent. The filters will be removed and placed onto the surface of agar plates appropriate for recovery of the organism.

#### Incubation and Observation

The subculture plates and controls will be incubated for 48±2 hours under the conditions listed on table 1. Following incubation, the subcultures will be visually examined for growth. If necessary, the subcultures may be placed at 2-8°C for up to three days prior to examination.

Representative subculture plates showing growth will be stained and/or biochemically assayed to confirm or rule out the presence of the test organism. Additional subcultures may be performed if necessary.

## STUDY CONTROLS

# Initial Suspension Control (Time Zero Analysis)

In order to evaluate the titer of culture delivered onto each test and control carrier as a time zero analysis, each prepared test organism suspension will be serially diluted using a sterile diluent. A 0.1 mL aliquot of appropriate dilutions will be plated, in duplicate. The plates will be incubated as in the test. Following incubation, the plates will be visually observed and enumerated to determine CFU per mL delivered onto each carrier. This control is performed and reported for informational purposes only.

## **Purity Control**

A "streak plate for isolation" will be performed on each test organism suspension. Following incubation, the plates will be examined in order to confirm the presence of a pure culture. The acceptance criterion for this study control is a pure culture demonstrating colony morphology typical of the test organism.

## **Organic Soil Load Sterility Control**

Prior to or concurrent with testing and if applicable, the serum used for the soil load will be added to a tube of Fluid Thioglycollate medium, incubated, and visually examined for lack of growth. The acceptance criterion for this study control is lack of growth.

## **Neutralizer Sterility Control**

Prior to or concurrent with testing, a representative sample of uninoculated neutralizer (1.0 mL) will be spread plated on appropriate agar. The plate will be incubated and visually examined. The acceptance criterion for this study control is lack of growth.

## **Carrier Population Control**

Four carriers per carrier type/organism will be inoculated and dried as in the test. Following drying, the first carrier in the set will be neutralized in 500 mL of neutralizer and mixed as in the test. Following mixing, aseptically remove the first carrier and discard, then transfer the second carrier to the bag and mix again. Repeat the same procedure for the 3rd and 4th carrier. The neutralized subcultures will be serially diluted and spread-plated using duplicate 0.1 mL aliquots of dilutions 10-2 through 10-2 throug

This control is used for calculating reductions observed in the test. The acceptance criterion for this study control is (see modification 3).

O Removed for clarity, no serial dilutions needed. Ms 9-15-17

Dupdated per 9-15-17 email M5 9-18-17

Template: 330-GJI01 Rev. 001

- Proprietary Information -



GOJO Industries, Inc. Page 5 of 11



**Neutralization Confirmation Control** 

This control may be performed prior to or concurrent with testing. An uninoculated carrier will be wiped as in the test and neutralized in 500 mL of neutralizer. The neutralized material will be mixed and 50 mL will be distributed between each test organism dilution evaluated. Each distributed aliquot of neutralized material will be inoculated with a low level of test organism to target approximately 100 CFU of neutralized material and mixed. The entire contents will then be transferred to individual sterile 0.2-0.45 µm filter apparatus system pre-wetted with 10 mL sterile diluent. The sample will be filtered, rinsed and plated as in the test.

A numbers control will be performed by filter plating an identical aliquot of the test organism. All resulting plates will be incubated as in the test and enumerated. The acceptance criterion for this study control is growth within 1 log 10 of the corresponding numbers control.

# PROCEDURE FOR IDENTIFICATION OF THE TEST SYSTEM

Accuratus Lab Services maintains Standard Operating Procedures (SOPs) relative to efficacy testing studies. Efficacy testing is performed in strict adherence to these SOPs which have been constructed to cover all aspects of the work including, but not limited to, receipt, log-in, and tracking of biological reagents including test organism strains for purposes of identification, receipt and use of chemical reagents. These procedures are designed to document each step of efficacy testing studies. Appropriate references to medium, batch number, etc. are documented in the raw data collected during the course of each study.

Additionally, each efficacy test is assigned a unique Project Number when the protocol for the study is initiated by the Study Director. This number is used for identification of the test subcultures, etc. during the course of the test. Test subcultures are also labeled with reference to the test organism, experimental start date, and test product. Microscopic and/or macroscopic evaluations of positive subcultures are performed in order to confirm the identity of the test organism. These measures are designed to document the identity of the test system.

# METHOD FOR CONTROL OF BIAS: NA

## STUDY ACCEPTANCE CRITERIA

# Test Substance Performance Criteria

The efficacy performance requirements for non-residual sanitization of hard, inanimate, food contact surfaces using pre-saturated towelettes state that a sanitizer must show at least a 99.999% (5 log10) reduction of the test organism over the total treated area within 30 seconds on each carrier type.

# Control Acceptance Criteria

The study controls must perform according to the criteria detailed in the study controls description section. If any of the control acceptance criteria are not met, the test may be repeated under the current protocol. If the population control fails to meet the minimum requirement and growth is observed on the test plates, no repeat testing is necessary.

If any portion of the protocol is executed incorrectly warranting repeat testing, the test may be repeated under the current protocol number. If the population control fails to meet the minimum requirement or if the neutralization control acceptance criteria is not met and the study fails to meet the efficacy requirements, repeat testing is not required.

The report will include, but not be limited to, identification of the sample, date received, initiation and completion dates, identification of the organism strains used, description of media and reagents, description of the methods employed, tabulated results and conclusion as it relates to the purpose of the test, and all other items required by 40 CFR Part 160.185.

Template: 330-GJI01 Rev. 001

- Proprietary Information -

1285 Corporate Center Drive, Suite 110 • Eagan, MN 55121 • 877 287 8378 • 651 379 5510 • www accuratuslabs com



GOJO Industries, Inc. Page 6 of 11



PROTOCOL CHANGES

If it becomes necessary to make changes in the approved protocol, the revision and reasons for changes will be documented, reported to the Sponsor and will become a part of the permanent file for that study. Similarly, the Sponsor will be notified as soon as possible whenever an event occurs that may have an effect on the validity of the study.

Standard operating procedures used in this study will be the correct effective revision at the time of the work. Any minor changes to SOPs (for this study) or methods used will be documented in the raw data and approved by the Study Director.

TEST SUBSTANCE RETENTION

It is the responsibility of the Sponsor to retain a sample of the test substance. All unused test substance will be discarded following study completion unless otherwise indicated by Sponsor.

## RECORD RETENTION

Study Specific Documents

All of the original raw data developed exclusively for this study shall be archived at Accuratus Lab Services for a minimum of five years for GLP studies or a minimum of six months for all other studies following the study completion date. After this time, the Sponsor (or the Sponsor Representative, if applicable) will be contacted to determine the final disposition. These original data include, but are not limited to, the following:

- All handwritten raw data for control and test substances including, but not limited to, notebooks data, forms and calculations.
- Any protocol amendments/deviation notifications.
- All measured data used in formulating the final report.
- Memoranda, specifications, and other study specific correspondence relating to interpretation, and evaluation of data, other than those documents contained in the final study report.
- 5. Original signed protocol.
- 6. Certified copy of final study report.
- 7. Study-specific SOP deviations made during the study.

# **Facility Specific Documents**

The following records shall also be archived at Accuratus Lab Services. These documents include, but are not limited to, the following:

- 1. SOPs which pertain to the study conducted.
- 2. Non study-specific SOP deviations made during the course of this study which may affect the results obtained during this study.
- Methods which were used or referenced in the study conducted.
- QA reports for each QA inspection with comments.
- Facility Records: Temperature Logs (ambient, incubator, etc.), Instrument Logs, Calibration and Maintenance Records).
- Current curriculum vitae, training records, and job descriptions for all personnel involved in the study.

Template: 330-GJI01 Rev. 001

- Proprietary Information -



GOJO Industries, Inc. Page 7 of 11



#### REFERENCES

- Association of Official Analytical Chemists (AOAC) Official Method 960.09, Germicidal and Detergent Sanitizing Action of Disinfectants Method. In Official Methods of Analysis of the AOAC, 2013 Edition.
- U.S. Environmental Protection Agency, Office of Chemical Safety and Pollution Prevention, Product Performance Test Guidelines, OCSPP 810.2000: General Considerations for Uses of Antimicrobial Agents, September 4, 2012.
- U.S. Environmental Protection Agency, Office of Chemical Safety and Pollution Prevention, Product Performance Test Guidelines, OCSPP 810.2300: Sanitizers for Use on Hard Surfaces- Efficacy Data Recommendations, September 4, 2012.
- U.S. Environmental Protection Agency, Draft Interim Guidance for Non-Residual Sanitization of Hard Inanimate Food Contact Surfaces Using Pre-Saturated Towelettes, April 12, 2001.
- Health Canada, January, 2014. Guidance Document Safety and Efficacy Requirements for Hard Surface Disinfectant Drugs.
- 6. Health Canada, January, 2014 Guidance Document Disinfectant Drugs.

## **DATA ANALYSIS**

#### Calculations:

Percent and log<sub>10</sub> reductions will be determined for the treated surfaces based on the population control.

## Initial Suspension Control

CFU/mL= (average number colonies/plate @ dilution) x (dilution factor) (volume plated in mL)

## Test Results and Carrier Population Control (CFU/carrier):

CFU/carrier = (average number colonies/plate @ dilution) x (dilution factor) x (volume of neutralizer in mL)

(volume plated or filtered in mL)

Total Test Survivors = CFU/Carrier<sub>1</sub> + CFU/Carrier<sub>2</sub> + CFU/Carrier<sub>3</sub> + CFU/Carrier<sub>4</sub>
Total Carrier Population= CFU/Carrier (4 combined)
When adding CFU/carrier results together, round the final value using the CFU/carrier result with the most digits.

## Log<sub>10</sub> and Percent Reductions

Log<sub>10</sub> reduction = Log<sub>10</sub> (Total Carrier Population) – Log<sub>10</sub> (Total Test Survivors)

Percent reduction =  $[(a - b) / a] \times 100$ 

where:

a = Total Carrier Populationb = Total Test Survivors

## Statistical Analysis:

None used.

Template: 330-GJI01 Rev. 001

- Proprietary Information -



GOJO Industries, Inc. Page 8 of 11



# STUDY INFORMATION

(All blank sections are completed by the Sponsor or Sponsor Representative as linked to their signature, unless otherwise noted.)
Test Substance (Name & Batch Numbers exactly as it should appear on final report): 2017-JigSAW-008; Batches 2017-JigSAW-008-1, 2017-JigSAW-008-2, 2017-JigSAW-008-3
Testing at the lower certified limit (LCL) is required for registration, no aged batch is necessary.
Product Description:       □ Quaternary ammonia       □ Peracetic acid       □ Iodophor       □ Peroxide         □ Sodium hypochlorite       ☑ Other Ethanol
Approximate Test Substance Active Concentration (upon submission to Accuratus Lab Services):  ~19% Ethanol
(This value is used for neutralization planning only. This value is not intended to represent characterization values.)
Neutralization/Subculture Broth:  Accuratus Lab Services' Discretion. By checking, the Sponsor authorizes Accuratus Lab Services, at their discretion, to perform neutralization confirmation assays at the Sponsor's expense prior to testing to determine the most appropriate neutralizer. (See Fee Schedule).
Storage Conditions:  ☑ Room Temperature ☐ 2-8°C ☐ Other:
Hazards:  ☑ None known: Use Standard Precautions ☑ Material Safety Data Sheet, Attached for each product □ As Follows:
Product Preparation ☑ No dilution required, Use as received (RTU)
Test Organism(s):  ☑ Staphylococcus aureus (ATCC 6538)
Number of carriers: Triplicate sets of 4 per batch
Exposure Time: 23 seconds
Surface Type: ☐ Glass ☐ Rough (textured) plastic ☐ Stainless steel
Total Surface Area: ☑ 4 carriers to represent approximately 4 square feet
Exposure Temperature: Room temperature (18-25°C)
Organic Soil Load:  ☑ 6% Organic Soil Load (Fetal Bovine Serum in Organism Suspension)

Template: 330-GJI01 Rev. 001

– Proprietary Information –



GOJO Industries, Inc. Page 9 of 11



Wiping Procedure: Wipes will be folded in half twice before use (sized to make close to an even square)

☑ Carrier 1 of 4: starting from bottom left corner, wipe upward and back to start, then move over to the right one towelette length and perform again. This will be done four total times to cover the entire carrier, taking ~15 seconds. Then flip the towelette to use the other side and perform the same wiping a second time, taking ~15 seconds (total wiping time per carrier is ~30 seconds before the exposure time starts).

Then for carrier 2: open one fold of the wipe and fold the other direction, exposing two unused sides, and wipe as stated above. Next open the wipe completely, inverting and folding as in the beginning to expose unused sides for wiping of carriers 3 and 4 as stated for the first two carriers.

## TEST SUBSTANCE SHIPMENT STATUS

(This section is for informational purposes only.)

- M Test Substance is already present at Accuratus Lab Services.
- ☐ Test Substance has been or will be shipped to Accuratus Lab Services.

  Date of expected receipt at Accuratus Lab Services:
- Test Substance to be hand-delivered (must arrive by noon at least one day prior to testing or other arrangements made with the Study director).

#### COMPLIANCE

Study to be performed under EPA Good Laboratory Practice regulations (40 CFR Part 160) and in accordance to standard operating procedures.

☑ Yes

☐ No (Non-GLP or Development Study)

# REGULATORY AGENCY(S) THAT MAY REVIEW DATA

US EPA

☐ Health Canada

## PROTOCOL MODIFICATIONS

- Approved without modification
- Approved with modification

Modification 1: Target 1.9x10^9 CFU/mL with 0.880 absorbance at 620 nm

Modification 2: Filter 50 mL and 100 mL

Modification 3: Total recovery off 4 control carriers at least 7.5 x 10^7 CFU

Medification 4: calculations performed by averaging the 3 replicates, inversing for geometric mean and then calculating for percent and log reduction. Albed per 9-15-17 email. M59-18-17

# PROTOCOL ATTACHMENTS

Supplemental Information Form Attached - ☐ Yes ☑ No

Template: 330-GJI01 Rev 001

- Proprietory Information -

1285 Corporate Center Drive, Suite 110 • Eagan, MN 55121 • 877.287.8378 • 651 379.5510 • www accuratuslabs com

Project No. A24039
Protocol Number: GJI01083017.FCST.1

Template: 330-GJI01 Rev. 001

GOJO Industries, Inc. Page 32 of 33



Proto	col Number: GJI01083017.FCS1.1	GOJO Industries, Inc. Page 10 of 11	ACCURATUS TAB SERVICES
TEST	SUBSTANCE CHARACTERIZATION & STAB	ILITY TESTING	
[veiiii	Characterization/Stability testing is not require	1 1-772-	mont tration and
OR	Characterization/Ctability testing is not require	a (r or Non-OLF or Develop	nent testing only)
	cal and Chamieal Chargetorization (Identify, and		
	cal and Chemical Characterization (Identity, puri		
<u> </u>	rysical & Chemical Characterization has been		to emicacy testing.
	GLP compliance status of physical & chemica  ☐ Testing was or will be performed following ☐ Characterization has not been or will not be	40 CFR Part 160 GLP regula	itions gulations
	Check and complete the following that apply:  A Certificate of Analysis (C of A) may be p A will be appended to the report.	rovided for each lot of test s	ubstance. If provided, the C of
	☐ Testing has been or will be conducted at Ac	ccuratus Lab Services under	protocol or study #:
	Test has been or will be conducted by anot	her facility under protocol or :	study #:
	ty Testing of the formulation billity testing has been or will be completed p  GLP compliance status of stability testing: (GLP compliance is required by 40 CFR Part 1  Testing was or will be performed following 4  Stability testing has not been or will not be p  Check and complete the following that apply:  Testing has been or will be conducted at Ac	60) 10 CFR Part 160 GLP regulat performed following GLP regu curatus Lab Services under p	ions ulations protocol or study#:
] Stal	bility testing was not or will not be performed	prior to or concurrent with	efficacy testing
test s	substance characterization or stability testing infi ions, this will be indicated in the GLP compliance	ormation is not provided or is	s not performed following GLP
	ž.		

GJI01 Rev. 001 — Proprietary Information —

1285 Corporate Center Drive, Suite 110 • Eagan, MN 55121 • 877.287.8378 • 651.379.5510 • www.accuratuslabs.com

Project No. A24039
Protocol Number: GJI01083017.FCST.1

GOJO Industries, Inc. Page 33 of 33



Protocol Number: GJI01083017.FCST.1	GOJO Industries, Inc. Page 11 of 11		ACCURATUS TAB SERVICES
APPROVAL SIGNATURES			
SPONSOR:		Clinical  Sr. Scientist - (	Kunger
NAME: Ms Rachel Leslie	TITLE:	-Sr-Scientist - C	Clinical Pac 1/12/17
SIGNATURE: While I have	DATE:	9/12/17	-11303
PHONE: (440) 488 - 2259 FAX:	EMAIL: 16	eslier@GOJO.co	om
For confidentiality purposes, study information will be rel protocol (above) unless other individuals are specifically Other individuals authorized to receive information r	authorized in writing to I	receive study inf	
Accuratus Lab Services;			
NAME: Mathew Sathe Study Director			
SIGNATURE: Valls Study Director	D	ATE: 9-18-	17

Template: 330-GJI01 Rev. 001

Proprietary Information -

1285 Corporate Center Drive, Suite 110 • Eagan, MN 55121 • 877,287,8378 • 651,379,5510 • www.accuratuslabs.com